ERNATIONAL SEARCH REPORT

Internal Application No PCT/FR 02/04459

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G21F5/012 G21F5/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G21F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
X	DE 196 31 179 A (REEL SA) 6 February 1997 (1997-02-06) column 2, line 54 -column 4, line 12; figures 1,2	1-8, 15-17			
X	US 6 134 290 A (OZAWA TAMOTSU ET AL) 17 October 2000 (2000-10-17) column 10, line 26-61 column 11, line 8-53 column 12, line 60-64 column 15, line 14 -column 16, line 27 column 27, line 63 -column 28, line 51; figures 1-6,19	1-4,6,7,15-17			
	-/				

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the International search	Date of mailing of the international search report
12 August 2003	21/08/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer
NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Jandl, F

IN FRNATIONAL SEARCH REPORT

Internal Application No PCT/FR 02/04459

		PCT/FR 02/04	100
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relev	ant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 02, 29 February 1996 (1996-02-29) & JP 07 280990 A (TOSHIBA CORP), 27 October 1995 (1995-10-27)		1,4,6, 15,16
A	abstract; figures 1-6		2,3,7
X	DE 32 33 911 A (KRAFTWERK UNION AG) 15 March 1984 (1984-03-15)		1
A !	page 3, line 29 -page 4, line 32; figures 1-3		6,15
X	US 6 128 360 A (OZAWA TAMOTSU ET AL) 3 October 2000 (2000-10-03)		1-6, 15-17
A	column 13, line 23 -column 14, line 54 column 17, line 43-54; figures 1-8,12-14,22-25,29,30 & FR 2 760 562 A 11 September 1998 (1998-09-11) cited in the application		18-20
·			

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INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No PCT/FR 02/04459

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
DE 19631179	A	06-02-1997	FR DE JP	2737598 A1 19631179 A1 9113687 A	07-02-1997 06-02-1997 02-05-1997
US 6134290	A	17-10-2000	JP JP JP JP BE FR US	3142493 B2 10268081 A 3080894 B2 10239489 A 1011402 A3 2758646 A1 6108392 A	07-03-2001 09-10-1998 28-08-2000 11-09-1998 03-08-1999 24-07-1998 22-08-2000
JP 07280990	<u>_</u>	27-10-1995	NONE		
DE 3233911	A	15-03-1984	DE	3233911 A1	15-03-1984
US 6128360	A	03-10-2000	JP JP JP BE FR	3080895 B2 10246796 A 11242093 A 1011646 A3 2760562 A1	28-08-2000 14-09-1998 07-09-1999 09-11-1999 11-09-1998